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NEWS 1	Web Page for STN Seminar Schedule - N. America		
NEWS 2	DEC 01	ChemPort single article sales feature unavailable	
NEWS 3	JUN 01	CAS REGISTRY Source of Registration (SR) searching enhanced on STN	
NEWS 4	JUN 26	NUTRACEUT and PHARMAML no longer updated	
NEWS 5	JUN 29	IMSCOPROFILE now reloaded monthly	
NEWS 6	JUN 29	EPFULL adds Simultaneous Left and Right Truncation (SLART) to AB, MCLM, and TI fields	
NEWS 7	JUL 09	PATDPAFULL adds Simultaneous Left and Right Truncation (SLART) to AB, CLM, MCLM, and TI fields	
NEWS 8	JUL 14	USGENE enhances coverage of patent sequence location (PSL) data	
NEWS 9	JUL 27	CA/CAplus enhanced with new citing references	
NEWS 10	JUL 16	GBFULL adds patent backfile data to 1855	
NEWS 11	JUL 21	USGENE adds bibliographic and sequence information	
NEWS 12	JUL 28	EPFULL adds first-page images and applicant-cited references	
NEWS 13	JUL 28	INPADOCDB and INPAFAMDB add Russian legal status data	
NEWS 14	AUG 10	Time limit for inactive STN sessions doubles to 40 minutes	
NEWS 15	AUG 17	CAS REGISTRY, the Global Standard for Chemical Research, Approaches 50 Millionth Registration Milestone	
NEWS 16	AUG 18	COMPENDEX indexing changed for the Corporate Source (CS) field	
NEWS 17	AUG 24	ENCOMPLIT/ENCOMPLIT2 reloaded and enhanced	
NEWS 18	AUG 24	CA/CAplus enhanced with legal status information for U.S. patents	

NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,
AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

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FILE 'HOME' ENTERED AT 13:54:52 ON 08 SEP 2009

=> file caplus
COST IN U.S. DOLLARS
SINCE FILE
ENTRY
TOTAL
SESSION
0.66
0.66
FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 13:56:22 ON 08 SEP 2009
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FILE COVERS 1907 - 8 Sep 2009 VOL 151 ISS 11
FILE LAST UPDATED: 7 Sep 2009 (20090907/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

CPlus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at: www.cas.org/casinfo

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

The ALL, BIB, MAX, and STD display formats in the CA/CAplus family of databases have been updated to include new citing references information. This enhancement may impact record import into database management software. For additional information, refer to NEWS 9.

=> s US20070096082/pn
L1 1 US20070096082/PN

=> d

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2005:493642 CAPLUS
DN 143:27358
TI Polymerizable aromatic diamines compounds and conjugated oligomers of polymers based thereon
IN Gaynor, Scott; Inbasekaran, Michael; O'Brien, James J.; Welsh, Dean M.
PA Dow Global Technologies, Inc., USA
SO PCT Int. Appl., 37 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.		KIND	DATE	APPLICATION NO.	DATE
-----		----	-----	-----	-----
PI	WO 2005052027	A1	20050609	WO 2004-US35221	20041025
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	GB 2424897	A	20061011	GB 2006-11893	20041025
	GB 2424897	B	20080521		
	DE 112004002204	T5	20061026	DE 2004-112004002204	20041025
	CN 1886443	A	20061227	CN 2004-80033957	20041025
	JP 2007511636	T	20070510	JP 2006-539542	20041025
	US 20070096082	A1	20070503	US 2006-579341	20060824 <--
PRAI	US 2003-520596P	P	20031117		
	WO 2004-US35221	W	20041025		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 143:27358

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.99	4.65

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 7 SEP 2009 HIGHEST RN 1181105-91-8
DICTIONARY FILE UPDATES: 7 SEP 2009 HIGHEST RN 1181105-91-8

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TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

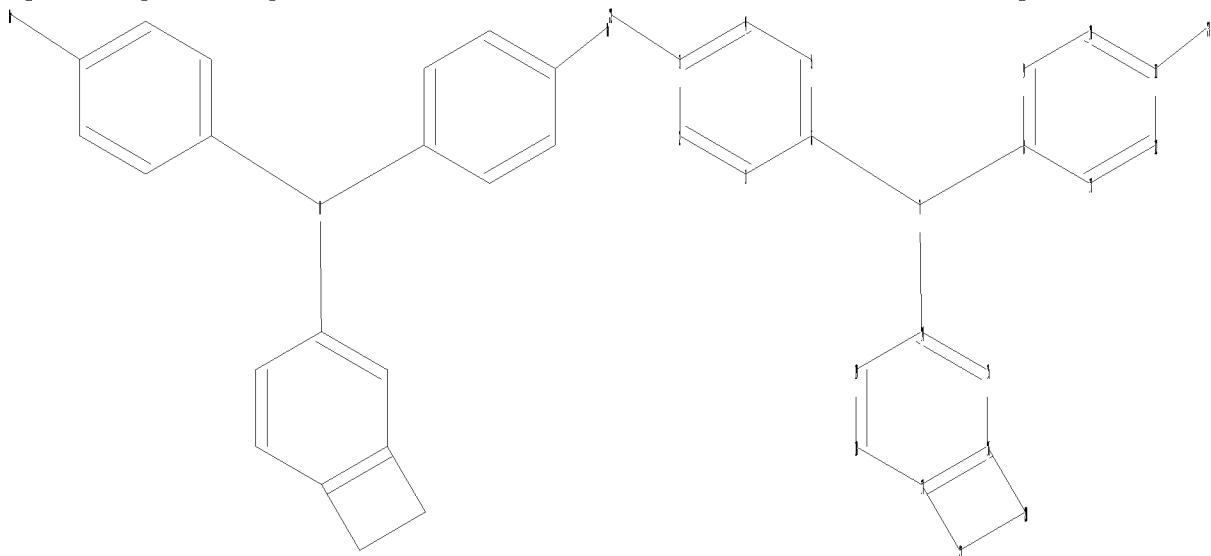
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FILE 'CPLUS' ENTERED AT 13:56:22 ON 08 SEP 2009
L1 1 S US20070096082/PN
FILE 'REGISTRY' ENTERED AT 13:56:43 ON 08 SEP 2009
FILE 'CPLUS' ENTERED AT 13:56:48 ON 08 SEP 2009
FILE 'REGISTRY' ENTERED AT 13:56:48 ON 08 SEP 2009

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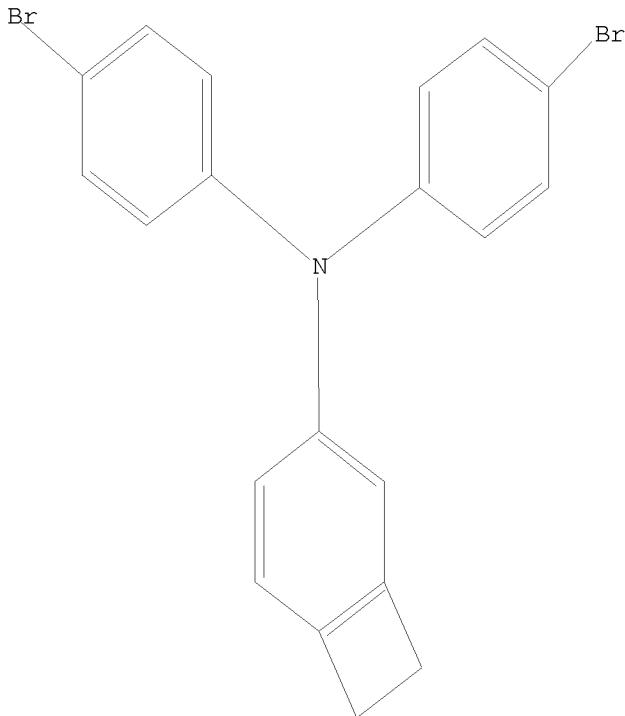


chain nodes :
7 22 23
ring nodes :
1 2 3 4 5 6 8 9 10 11 12 13 14 15 16 17 18 19 20 21
chain bonds :
3-22 6-7 7-8 7-14 11-23
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-13 9-10 10-11 11-12 12-13 14-15 14-19
15-16 16-17 16-20 17-18 17-21 18-19 20-21
exact/norm bonds :
6-7 7-8 7-14 16-20 17-21 20-21
exact bonds :
3-22 11-23
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-13 9-10 10-11 11-12 12-13 14-15 14-19
15-16 16-17 17-18 18-19

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:CLASS 23:CLASS

L2 STRUCTURE UPLOADED

=> d
L2 HAS NO ANSWERS
L2 STR



Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED - 79 TO ITERATE

100.0% PROCESSED 79 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1047 TO 2113
PROJECTED ANSWERS: 0 TO 0

L3 0 SEA SSS SAM L2

=> s 12 full
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SEARCH TIME: 00.00.01

L4

4 SEA SSS FUL L2

=> file caplus
COST IN U.S. DOLLARS
FULL ESTIMATED COST

	SINCE FILE ENTRY	TOTAL SESSION
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FILE COVERS 1907 - 8 Sep 2009 VOL 151 ISS 11
FILE LAST UPDATED: 7 Sep 2009 (20090907/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

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=> s 14
L5 5 L4

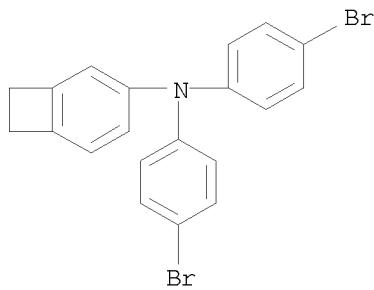
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5 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE
The answer numbers requested are not in the answer set.
ENTER ANSWER NUMBER OR RANGE (1):end

=> d 15 abs ibib hitstr 1-
YOU HAVE REQUESTED DATA FROM 5 ANSWERS - CONTINUE? Y/(N):y

L5 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
AB The compns. comprise (A) light-emitting polymers and (B) metal alkoxides.
The devices have light-emitting layers of the compns. between anodes and cathodes. The devices show improved lifetime.
ACCESSION NUMBER: 2008:800510 CAPLUS
DOCUMENT NUMBER: 149:115329
TITLE: Light-emitting polymer compositions and light-emitting

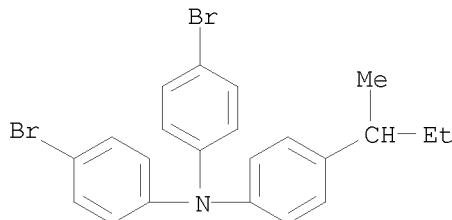
INVENTOR(S): devices using them
 Uetani, Yasunori
 PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 9pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2008150516	A	20080703	JP 2006-341037	20061219
PRIORITY APPLN. INFO.:			JP 2006-341037	20061219
IT 1029851-65-7P	RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (light-emitting polymer compns. containing metal alkoxides for long-lifetime LED)			
RN 1029851-65-7 CAPLUS				
CN Bicyclo[4.2.0]octa-1,3,5-trien-3-amine, N,N-bis(4-bromophenyl)-, polymer with N,N-bis(4-bromophenyl)-4-(1-methylpropyl)benzenamine and 2,2'-(9,9-dioctyl-9H-fluorene-2,7-diyl)bis[1,3,2-dioxaborolane] (CA INDEX NAME)				
CM 1				
CRN 852534-20-4				
CMF C20 H15 Br2 N				



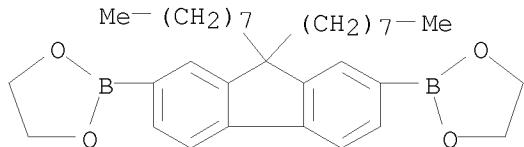
CM 2

CRN 287976-94-7
CMF C22 H21 Br2 N



CM 3

CRN 210347-49-2
CMF C33 H48 B2 O4



L5 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
AB The compns. contain conjugated polymers having ≥ 1 repeating units chosen from (un)substituted fluorenediyl, (un)substituted benzofluorenediyl, (un)substituted dibenzofuranediyl, (un)substituted dibenzothiophenediyl, (un)substituted carbazolediyl, (un)substituted thiophenediyl, (un)substituted furanediyl, (un)substituted phenoazinediyl, (un)substituted pyrrolediyl, (un)substituted benzothiadiazolediyl, (un)substituted phenylenevinylenediyl, (un)substituted thienylenevinylenediyl, and (un)substituted triphenylaminediyl, and Q1OAr1Ar2Ar3Q2 [Ar1-Ar3 = C1-18 alkyl-substituted cyclohexane-1,4-diyl, C1-18 alkyl-substituted cyclohexene-3,6-diyl, C1-18 alkyl-substituted 1,4-phenylene, etc.; Q1, Q2 = monovalent group bearing oxirane end group, alkali metal, H, C1-18 alkyl, oxetanyl, (meth)acryloyl]. The compns. have good charge transporting and injecting properties. Thus, a composition containing conjugated polymer having (substituted) fluorenediyl and (substituted) phenoazinediyl repeating units, and 1-(3-methyl-4-oxiranylmethoxyphenyl)-4-(4-oxiranylmethoxyphenyl)-1-cyclohexene was applied to an emitter layer of an organic electroluminescent device.

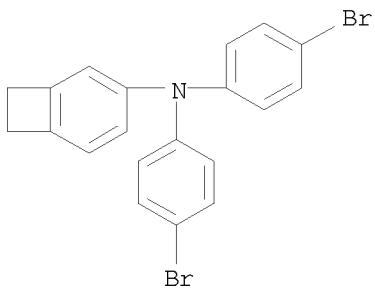
ACCESSION NUMBER: 2008:699237 CAPLUS
DOCUMENT NUMBER: 149:20818
TITLE: Conjugated polymer compositions, and organic electroluminescent devices and thin-film solar cells using them
INVENTOR(S): Uetani, Yasunori; Tanaka, Shinya; Fujiwara, Atsushi
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 17pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2008133346	A	20080612	JP 2006-319694	20061128
PRIORITY APPLN. INFO.:			JP 2006-319694	20061128
OTHER SOURCE(S):	MARPAT	149:20818		
IT 1029851-65-7P				
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (conjugated polymer compns. having good charge transporting and injecting properties for organic electroluminescent devices and thin-film solar cells)				
RN 1029851-65-7 CAPLUS				
CN Bicyclo[4.2.0]octa-1,3,5-trien-3-amine, N,N-bis(4-bromophenyl)-, polymer with N,N-bis(4-bromophenyl)-4-(1-methylpropyl)benzenamine and 2,2'-(9,9-dioctyl-9H-fluorene-2,7-diyl)bis[1,3,2-dioxaborolane] (CA INDEX				

NAME)

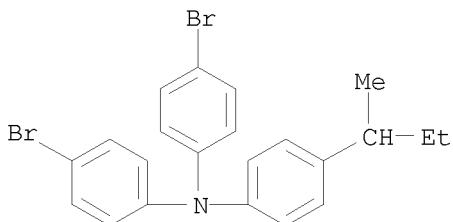
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CRN 852534-20-4
CMF C20 H15 Br2 N



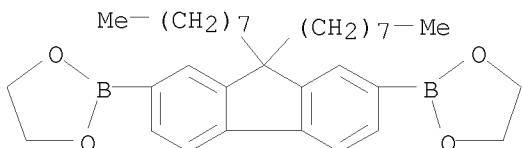
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CRN 287976-94-7
CMF C22 H21 Br2 N



CM 3

CRN 210347-49-2
CMF C33 H48 B2 O4



L5 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN

AB Disclosed is an organic electroluminescent device comprising electrodes composed of an anode and a cathode, a 1st organic layer arranged between the electrodes in contact with or close to the anode and containing a hole transporting polymer compound, and a 2nd organic layer arranged between the 1st organic layer and the cathode in contact with the 1st organic layer and containing

an electron transporting polymer compound. This organic electroluminescent device is characterized in that the hole transporting polymer compound and the electron transporting polymer compound are defined by specific

parameters, and at least 1 of the 1st organic layer and the 2nd organic layer contains a light-emitting material defined by a specific parameter. The organic electroluminescent device is also characterized by emitting light of a specific color from the 1st organic layer or the 1st organic layer and the 2nd

organic layer. This organic electroluminescent device is excellent in luminous efficiency and driving voltage.

ACCESSION NUMBER: 2008:352508 CAPLUS
DOCUMENT NUMBER: 148:342099
TITLE: Organic electroluminescent device
INVENTOR(S): Yamada, Takeshi
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan; Sumation Co., Ltd.
SOURCE: PCT Int. Appl., 47pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008032843	A1	20080320	WO 2007-JP68008	20070910
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
JP 2008098619	A	20080424	JP 2007-225588	20070831
EP 2063473	A1	20090527	EP 2007-807412	20070910
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
KR 2009084814	A	20090805	KR 2009-707366	20070910
US 20090212693	A1	20090827	US 2009-440626	20090326
PRIORITY APPLN. INFO.:			JP 2006-249183	A 20060914
			WO 2007-JP68008	W 20070910

IT 1010432-21-9

RL: TEM (Technical or engineered material use); USES (Uses)
(organic electroluminescent device)

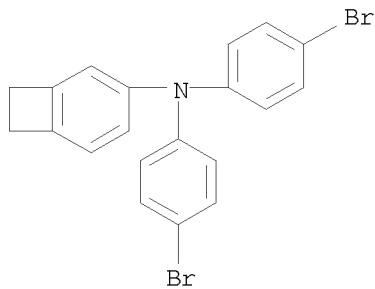
RN 1010432-21-9 CAPLUS

CN Bicyclo[4.2.0]octa-1,3,5-trien-3-amine, N,N-bis(4-bromophenyl)-, polymer with N,N-bis(4-bromophenyl)-4-(2-methylpropyl)benzenamine and 2,2'-(9,9-dioctyl-9H-fluorene-2,7-diyl)bis[1,3,2-dioxaborolane] (CA INDEX NAME)

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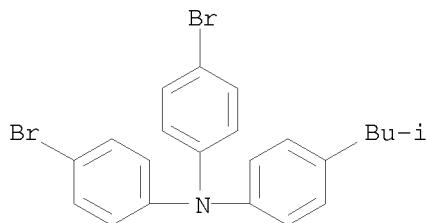
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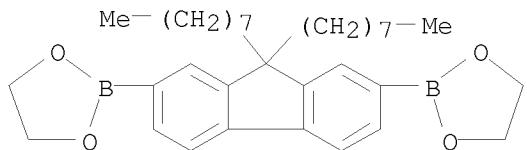
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CRN 444796-12-7
CMF C22 H21 Br2 N



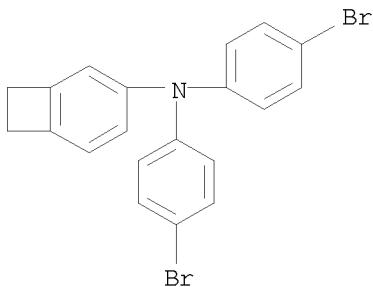
CM 3

CRN 210347-49-2
CMF C33 H48 B2 O4



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
GI

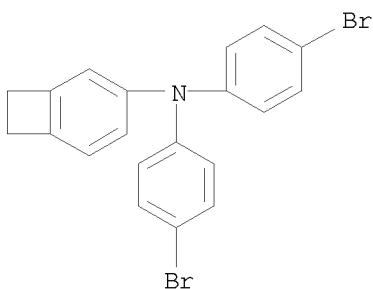


IT 852534-20-4DP, polymers

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(organic thin-film transistors having prescribed polyarylene-polyamines and showing low threshold voltage)

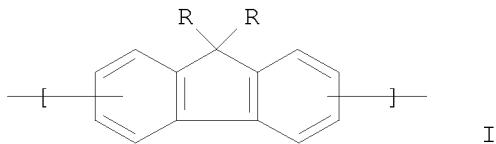
RN 852534-20-4 CAPLUS

CN Bicyclo[4.2.0]octa-1,3,5-trien-3-amine, N,N-bis(4-bromophenyl)- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

L5 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
GI



AB The crosslinkable substituted fluorene compound I (R = inert substituent, a monovalent crosslink forming group, a polyvalent crosslink forming group) is a monomer for preparing oligomers and polymers, which are useful for forming films, coatings and multilayer electronic devices, especially, electroluminescent devices.

ACCESSION NUMBER: 2005:472210 CAPLUS

DOCUMENT NUMBER: 143:8538

TITLE: Crosslinkable substituted fluorene compounds and their conjugated oligomers or polymers

INVENTOR(S): Inbasekaran, Michael; Yu, Wanglin

PATENT ASSIGNEE(S): Dow Global Technologies Inc., USA

SOURCE: PCT Int. Appl., 31 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

2

PATENT INFORMATION:

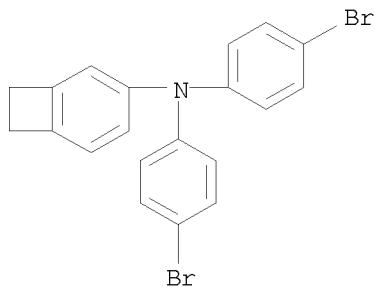
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005049689	A2	20050602	WO 2004-US36076	20041025
WO 2005049689	A3	20050721		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
GB 2424896	A	20061011	GB 2006-11892	20041025
GB 2424896	B	20080227		
CN 1882632	A	20061220	CN 2004-80033898	20041025
DE 112004002221	T5	20070118	DE 2004-112004002221	20041025
JP 2007528916	T	20071018	JP 2006-539570	20041025
KR 2006127853	A	20061213	KR 2006-709478	20060516
US 20070102695	A1	20070510	US 2006-579531	20060901
PRIORITY APPLN. INFO.:			US 2003-520597P	P 20031117
			WO 2004-US36076	W 20041025

IT 852534-20-4P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(crosslinkable substituted fluorene conjugated oligomers or polymers for films, coatings and multilayer electronic devices)

RN 852534-20-4 CAPLUS

CN Bicyclo[4.2.0]octa-1,3,5-trien-3-amine, N,N-bis(4-bromophenyl)- (CA INDEX NAME)



IT 852534-23-7P

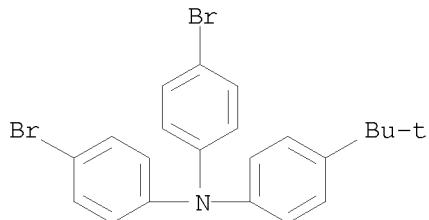
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(crosslinkable substituted fluorene conjugated oligomers or polymers for films, coatings and multilayer electronic devices)

RN 852534-23-7 CAPLUS

CN Bicyclo[4.2.0]octa-1,3,5-trien-3-amine, N,N-bis(4-bromophenyl)-, polymer with N,N-bis(4-bromophenyl)-4-(1,1-dimethylethyl)benzenamine and 2,2'-[9,9-bis[(4-ethenylphenyl)methyl]-9H-fluorene-2,7-diyl]bis[1,3,2-dioxaborolane] (9CI) (CA INDEX NAME)

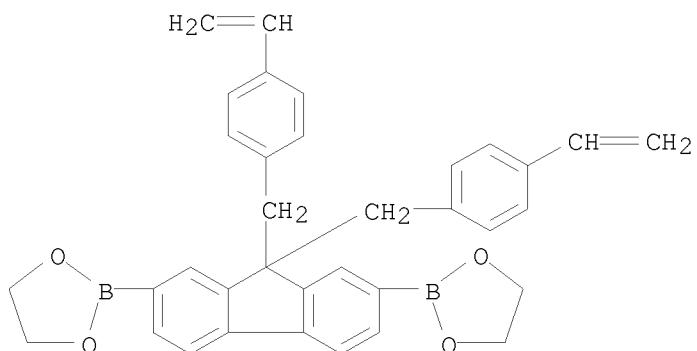
CM 1

CRN 852534-22-6
CMF C22 H21 Br2 N



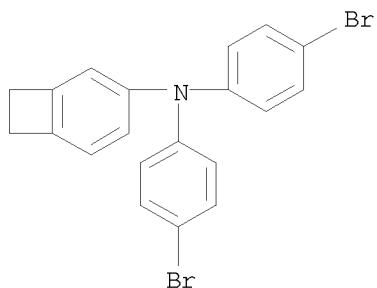
CM 2

CRN 852534-21-5
CMF C35 H32 B2 O4



CM 3

CRN 852534-20-4
CMF C20 H15 Br2 N



OS.CITING REF COUNT:

5

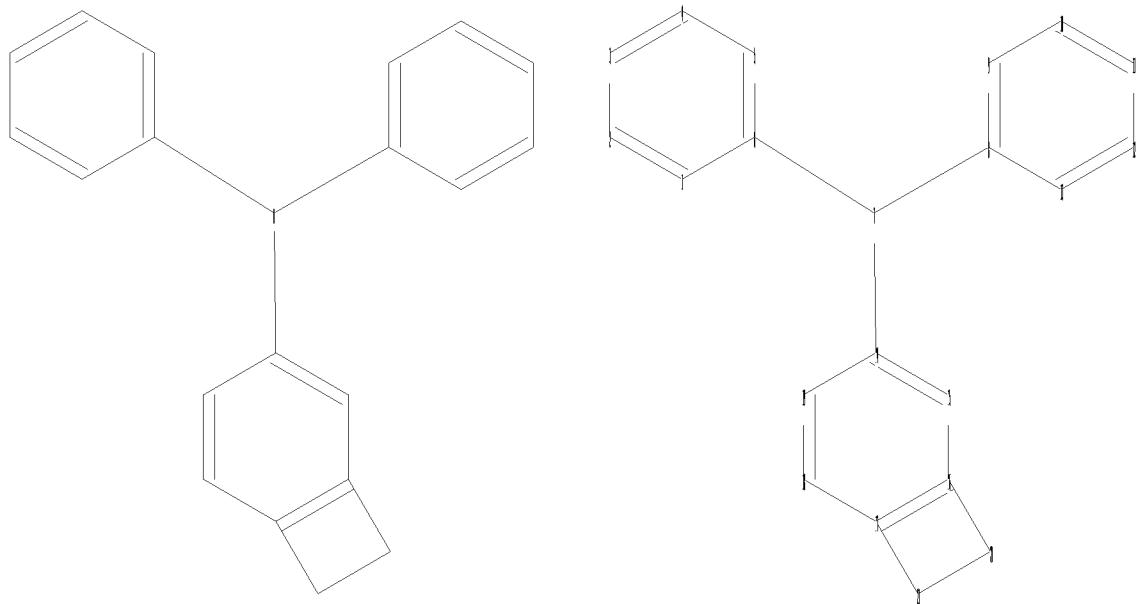
THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD
(8 CITINGS)

REFERENCE COUNT:

4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=>
Uploading C:\Program Files\STNEXP\Queries\10579341\10579341-compound 2.str

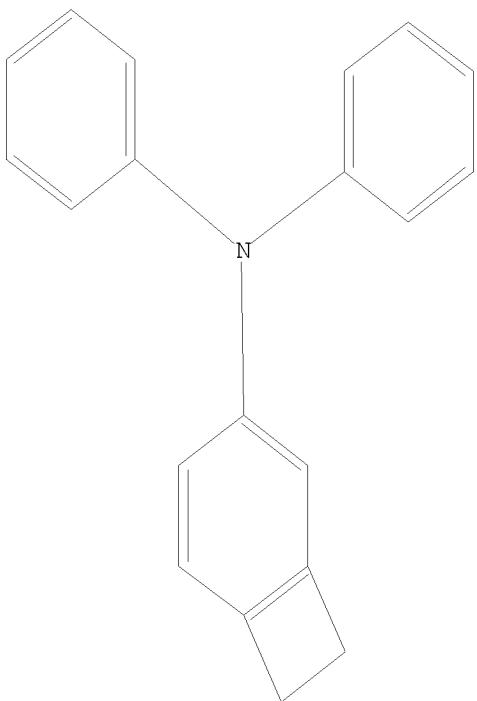


chain nodes :
7
ring nodes :
1 2 3 4 5 6 8 9 10 11 12 13 14 15 16 17 18 19 20 21
chain bonds :
6-7 7-8 7-14
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-13 9-10 10-11 11-12 12-13 14-15 14-19
15-16 16-17 16-20 17-18 17-21 18-19 20-21
exact/norm bonds :
6-7 7-8 7-14 16-20 17-21 20-21
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-13 9-10 10-11 11-12 12-13 14-15 14-19
15-16 16-17 17-18 18-19

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom

L6 STRUCTURE UPLOADED

=> d
L6 HAS NO ANSWERS
L6 STR



Structure attributes must be viewed using STN Express query preparation.

```
=> s 16
REG1stry INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.
```

```
SAMPLE SEARCH INITIATED 14:05:12 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 5874 TO ITERATE
```

```
34.0% PROCESSED 2000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01
```

```
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 112884 TO 122076
PROJECTED ANSWERS: 0 TO 0
```

```
L7 0 SEA SSS SAM L6
```

```
L8 0 L7
```

```
=> s 16 full
REG1stry INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
```

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 14:05:29 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 115812 TO ITERATE

100.0% PROCESSED 115812 ITERATIONS 8 ANSWERS
SEARCH TIME: 00.00.05

L9 8 SEA SSS FUL L6

L10 6 L9

=> file reg			
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION	
FULL ESTIMATED COST	0.50	413.91	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION	
CA SUBSCRIBER PRICE	0.00	-4.10	

FILE 'REGISTRY' ENTERED AT 14:05:49 ON 08 SEP 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 7 SEP 2009 HIGHEST RN 1181105-91-8
DICTIONARY FILE UPDATES: 7 SEP 2009 HIGHEST RN 1181105-91-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> s 19 1-
MISSING OPERATOR

=> d 19 1-
YOU HAVE REQUESTED DATA FROM FILE 'CAPLUS' - CONTINUE? (Y)/N:y

6 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE
The answer numbers requested are not in the answer set.

ENTER ANSWER NUMBER OR RANGE (1):end

=> d his

(FILE 'HOME' ENTERED AT 13:54:52 ON 08 SEP 2009)

FILE 'CAPLUS' ENTERED AT 13:56:22 ON 08 SEP 2009
L1 1 S US20070096082/PN

FILE 'REGISTRY' ENTERED AT 13:56:43 ON 08 SEP 2009

FILE 'CAPLUS' ENTERED AT 13:56:48 ON 08 SEP 2009

FILE 'REGISTRY' ENTERED AT 13:56:48 ON 08 SEP 2009

FILE 'CAPLUS' ENTERED AT 13:57:24 ON 08 SEP 2009

FILE 'REGISTRY' ENTERED AT 13:57:24 ON 08 SEP 2009

L2 STRUCTURE uploaded
L3 0 S L2
L4 4 S L2 FULL

FILE 'CAPLUS' ENTERED AT 14:02:06 ON 08 SEP 2009

L5 5 S L4
L6 STRUCTURE uploaded
S L6

FILE 'REGISTRY' ENTERED AT 14:05:12 ON 08 SEP 2009

L7 0 S L6

FILE 'CAPLUS' ENTERED AT 14:05:12 ON 08 SEP 2009

L8 0 S L7
S L6

FILE 'REGISTRY' ENTERED AT 14:05:29 ON 08 SEP 2009

L9 8 S L6 FULL

FILE 'CAPLUS' ENTERED AT 14:05:34 ON 08 SEP 2009

L10 6 S L9 FULL

FILE 'REGISTRY' ENTERED AT 14:05:49 ON 08 SEP 2009

FILE 'CAPLUS' ENTERED AT 14:05:57 ON 08 SEP 2009

FILE 'REGISTRY' ENTERED AT 14:06:02 ON 08 SEP 2009

=> d 19 1-

YOU HAVE REQUESTED DATA FROM FILE 'CAPLUS' - CONTINUE? (Y)/N:y

6 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE
The answer numbers requested are not in the answer set.
ENTER ANSWER NUMBER OR RANGE (1):end

=> s 16 full
FULL SEARCH INITIATED 14:06:43 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 115812 TO ITERATE

100.0% PROCESSED 115812 ITERATIONS
SEARCH TIME: 00.00.05

8 ANSWERS

L11

8 SEA SSS FUL L6

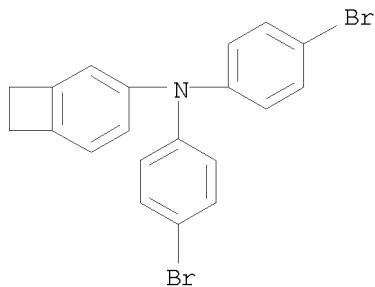
=> d 111 1-

YOU HAVE REQUESTED DATA FROM 8 ANSWERS - CONTINUE? Y/(N):Y

L11 ANSWER 1 OF 8 REGISTRY COPYRIGHT 2009 ACS on STN
RN 1029851-65-7 REGISTRY
ED Entered STN: 23 Jun 2008
CN Bicyclo[4.2.0]octa-1,3,5-trien-3-amine, N,N-bis(4-bromophenyl)-, polymer
with N,N-bis(4-bromophenyl)-4-(1-methylpropyl)benzenamine and
2,2'-(9,9-dioctyl-9H-fluorene-2,7-diyl)bis[1,3,2-dioxaborolane] (CA INDEX
NAME)
MF (C33 H48 B2 O4 . C22 H21 Br2 N . C20 H15 Br2 N)x
CI PMS
PCT Polyether, Polyether formed, Polyether
SR CA
LC STN Files: CA, CAPLUS

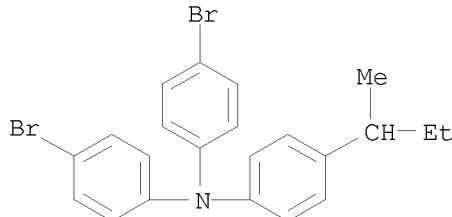
CM 1

CRN 852534-20-4
CMF C20 H15 Br2 N



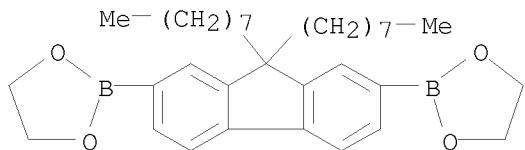
CM 2

CRN 287976-94-7
CMF C22 H21 Br2 N



CM 3

CRN 210347-49-2
CMF C33 H48 B2 O4

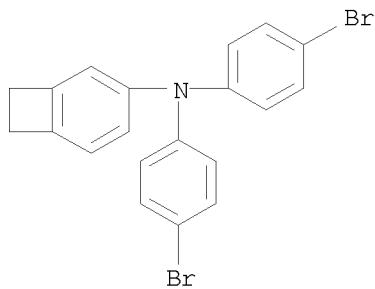


2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L11 ANSWER 2 OF 8 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 1010432-21-9 REGISTRY
 ED Entered STN: 27 Mar 2008
 CN Bicyclo[4.2.0]octa-1,3,5-trien-3-amine, N,N-bis(4-bromophenyl)-, polymer with N,N-bis(4-bromophenyl)-4-(2-methylpropyl)benzenamine and 2,2'-(9,9-dioctyl-9H-fluorene-2,7-diyl)bis[1,3,2-dioxaborolane] (CA INDEX NAME)
 MF (C33 H48 B2 O4 . C22 H21 Br2 N . C20 H15 Br2 N)x
 CI PMS
 PCT Polyether, Polyether formed, Polyether
 SR CA
 LC STN Files: CA, CAPLUS

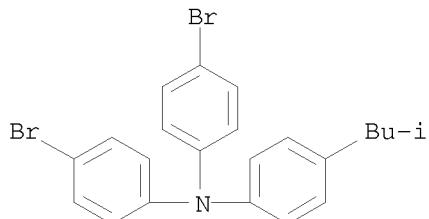
CM 1

CRN 852534-20-4
 CMF C20 H15 Br2 N



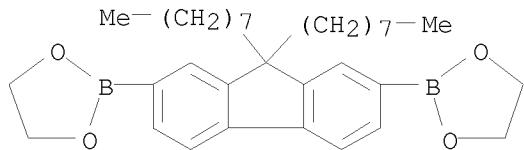
CM 2

CRN 444796-12-7
 CMF C22 H21 Br2 N



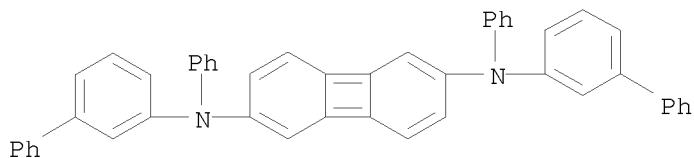
CM 3

CRN 210347-49-2
CMF C33 H48 B2 O4



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

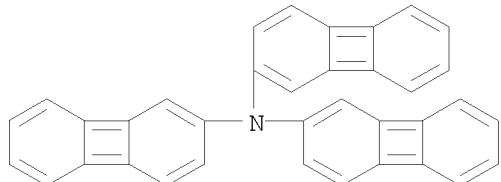
L11 ANSWER 3 OF 8 REGISTRY COPYRIGHT 2009 ACS on STN
RN 941716-74-1 REGISTRY
ED Entered STN: 09 Jul 2007
CN 2,6-Biphenylenediamine, N2,N6-bis([1,1'-biphenyl]-3-yl)-N2,N6-diphenyl- (CA INDEX NAME)
MF C48 H34 N2
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

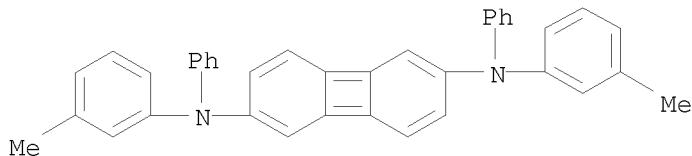
L11 ANSWER 4 OF 8 REGISTRY COPYRIGHT 2009 ACS on STN
RN 941716-63-8 REGISTRY
ED Entered STN: 09 Jul 2007
CN 2-Biphenylenamine, N,N-di-2-biphenylenyl- (CA INDEX NAME)
MF C36 H21 N
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L11 ANSWER 5 OF 8 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 941716-62-7 REGISTRY
 ED Entered STN: 09 Jul 2007
 CN 2,6-Biphenylenediamine, N2,N6-bis(3-methylphenyl)-N2,N6-diphenyl- (CA
 INDEX NAME)
 MF C38 H30 N2
 SR CA
 LC STN Files: CA, CAPLUS



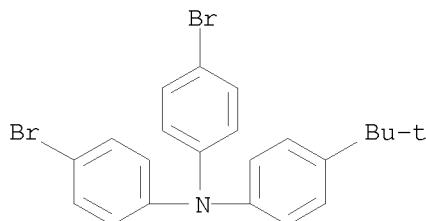
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L11 ANSWER 6 OF 8 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 852534-23-7 REGISTRY
 ED Entered STN: 20 Jun 2005
 CN Bicyclo[4.2.0]octa-1,3,5-trien-3-amine, N,N-bis(4-bromophenyl)-, polymer
 with N,N-bis(4-bromophenyl)-4-(1,1-dimethylethyl)benzenamine and
 2,2'-[9,9-bis[(4-ethenylphenyl)methyl]-9H-fluorene-2,7-diyl]bis[1,3,2-
 dioxaborolane] (9CI) (CA INDEX NAME)
 MF (C35 H32 B2 O4 . C22 H21 Br2 N . C20 H15 Br2 N)x
 CI PMS
 PCT Polyether, Polystyrene
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

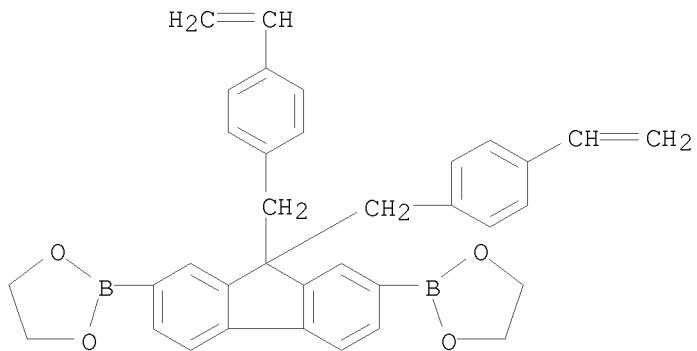
CM 1

CRN 852534-22-6
 CMF C22 H21 Br2 N



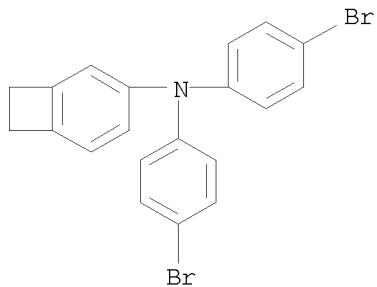
CM 2

CRN 852534-21-5
 CMF C35 H32 B2 O4



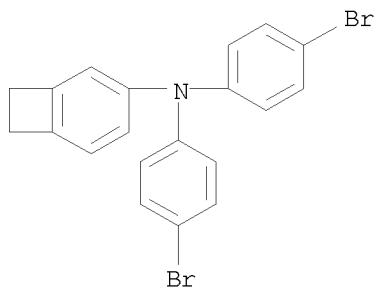
CM 3

CRN 852534-20-4
 CMF C20 H15 Br2 N



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

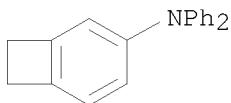
L11 ANSWER 7 OF 8 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 852534-20-4 REGISTRY
 ED Entered STN: 20 Jun 2005
 CN Bicyclo[4.2.0]octa-1,3,5-trien-3-amine, N,N-bis(4-bromophenyl)- (CA INDEX
 NAME)
 MF C20 H15 Br2 N
 CI COM
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L11 ANSWER 8 OF 8 REGISTRY COPYRIGHT 2009 ACS on STN
RN 852534-19-1 REGISTRY
ED Entered STN: 20 Jun 2005
CN Bicyclo[4.2.0]octa-1,3,5-trien-3-amine, N,N-diphenyl- (CA INDEX NAME)
MF C20 H17 N
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus		SINCE FILE	TOTAL
COST IN U.S. DOLLARS		ENTRY	SESSION
FULL ESTIMATED COST		202.28	618.15
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)		SINCE FILE	TOTAL
CA SUBSCRIBER PRICE		ENTRY	SESSION
		0.00	-4.10

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FILE COVERS 1907 - 8 Sep 2009 VOL 151 ISS 11
FILE LAST UPDATED: 7 Sep 2009 (20090907/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

The ALL, BIB, MAX, and STD display formats in the CA/CAplus family of databases have been updated to include new citing references information. This enhancement may impact record import into database management software. For additional information, refer to NEWS 9.

```
=> s l11
L12          6 L11

=> d his

      (FILE 'HOME' ENTERED AT 13:54:52 ON 08 SEP 2009)

      FILE 'CAPLUS' ENTERED AT 13:56:22 ON 08 SEP 2009
L1          1 S US20070096082/PN

      FILE 'REGISTRY' ENTERED AT 13:56:43 ON 08 SEP 2009
      FILE 'CAPLUS' ENTERED AT 13:56:48 ON 08 SEP 2009
      FILE 'REGISTRY' ENTERED AT 13:56:48 ON 08 SEP 2009
      FILE 'CAPLUS' ENTERED AT 13:57:24 ON 08 SEP 2009
      FILE 'REGISTRY' ENTERED AT 13:57:24 ON 08 SEP 2009
L2          STRUCTURE UPLOADED
L3          0 S L2
L4          4 S L2 FULL

      FILE 'CAPLUS' ENTERED AT 14:02:06 ON 08 SEP 2009
L5          5 S L4
L6          STRUCTURE UPLOADED
          S L6

      FILE 'REGISTRY' ENTERED AT 14:05:12 ON 08 SEP 2009
L7          0 S L6

      FILE 'CAPLUS' ENTERED AT 14:05:12 ON 08 SEP 2009
L8          0 S L7
          S L6

      FILE 'REGISTRY' ENTERED AT 14:05:29 ON 08 SEP 2009
L9          8 S L6 FULL

      FILE 'CAPLUS' ENTERED AT 14:05:34 ON 08 SEP 2009
L10         6 S L9 FULL

      FILE 'REGISTRY' ENTERED AT 14:05:49 ON 08 SEP 2009
      FILE 'CAPLUS' ENTERED AT 14:05:57 ON 08 SEP 2009
      FILE 'REGISTRY' ENTERED AT 14:06:02 ON 08 SEP 2009
      FILE 'CAPLUS' ENTERED AT 14:06:16 ON 08 SEP 2009
      FILE 'REGISTRY' ENTERED AT 14:06:23 ON 08 SEP 2009
L11         8 S L6 FULL
```

FILE 'CAPLUS' ENTERED AT 14:07:11 ON 08 SEP 2009
L12 6 S L11

=> s l12 not l10
L13 0 L12 NOT L10

=> s ?cyclobutane (l) amine
17244 ?CYCLOBUTANE
309705 AMINE
280942 AMINES
467984 AMINE
(AMINE OR AMINES)
L14 267 ?CYCLOBUTANE (L) AMINE

=> s l14 (l) diphenyl
115149 DIPHENYL
244 DIPHENYLS
115291 DIPHENYL
(DIPHENYL OR DIPHENYLS)
L15 6 L14 (L) DIPHENYL

=> s l15 not l12
L16 6 L15 NOT L12

=> d scan l16

L16 6 ANSWERS CAPLUS COPYRIGHT 2009 ACS on STN
CC 74-1 (Radiation Chemistry, Photochemistry, and Photographic and Other
Reproductive Processes)
Section cross-reference(s): 22
TI Photochemical behavior of 1,2-diphenylcyclobutene in polar media
ST photochem electron transfer diphenylcyclobutene polar media
IT Photochemistry
Photolysis
Protonation and Proton transfer reaction
(photochem. behavior of diphenylcyclobutene in polar media)
IT Electron exchange and Charge transfer
(photochem., photochem. behavior of diphenylcyclobutene in polar media)
IT 75-89-8, 2,2,2-Trifluoroethanol 102-69-2, Tripropylamine 623-26-7,
p-Dicyanobenzene
RL: PEP (Physical, engineering or chemical process); PROC (Process)
(photochem. behavior of diphenylcyclobutene in polar media)
IT 3018-21-1P, 1,2-Diphenylcyclobutane 53429-18-8P 53429-19-9P,
1,2-Diphenyl-1-methoxycyclobutane 64032-70-8P,
N,N-Diethyl-1,2-diphenylcyclobutylamine 64032-71-9P,
1,1',2,2'-Tetraphenylbicyclobutyl 159785-99-6P
RL: PNU (Preparation, unclassified); PREP (Preparation)
(photochem. behavior of diphenylcyclobutene in polar media)
IT 109-89-7, Diethylamine, reactions 110-91-8, Morpholine, reactions
3306-02-3, 1,2-Diphenylcyclobutene
RL: RCT (Reactant); RACT (Reactant or reagent)
(photochem. behavior of diphenylcyclobutene in polar media)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

=> d l16 abs ibib hitstr 1-
YOU HAVE REQUESTED DATA FROM 6 ANSWERS - CONTINUE? Y/(N):y

L16 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN
AB The authors report highly efficient and bright emission from exciplexes
generated between hole-transporting amine derivs. and two

electron-transporting fluorene-dicyanophenyl (FCNP) copolymers. These exciplexes were formed at either the interface between tetraphenyldiamine-containing perfluorocyclobutane polymers and the FCNP copolymers, or in the blends of the FCNP copolymers with small mol. amine derivs. such as triphenylamine, N,N'-diphenyl-N,N'-bis(3-methylphenyl)-[1,1'-biphenyl]-4,4'-diamine, and N,N'-diphenyl-N,N'-bis(1-naphthyl)-[1,1'-biphenyl]-4,4'-diamine. The exciplex emission is largely dependent on the composition of the hole-transporting materials. The best device derived from these exciplexes demonstrated a very low turn-on voltage (2.8 V), a high external quantum efficiency (0.91%), and a high brightness of 3370 cd/m². The desirable properties of these devices were attributed to the excellent electron transport ability of the FCNP copolymers.

ACCESSION NUMBER: 2002:415529 CAPLUS
DOCUMENT NUMBER: 137:192414
TITLE: Bright and efficient exciplex emission from light-emitting diodes based on hole-transporting amine derivatives and electron-transporting polyfluorenes
AUTHOR(S): Jiang, Xuezhong; Liu, Michelle S.; Jen, Alex K.-Y.
CORPORATE SOURCE: Department of Materials Science and Engineering, University of Washington, Seattle, WA, 98195, USA
SOURCE: Journal of Applied Physics (2002), 91(12), 10147-10152
CODEN: JAPIAU; ISSN: 0021-8979
PUBLISHER: American Institute of Physics
DOCUMENT TYPE: Journal
LANGUAGE: English
OS.CITING REF COUNT: 17 THERE ARE 17 CAPLUS RECORDS THAT CITE THIS RECORD (17 CITINGS)
REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN
AB A review with 10 refs. Novel poly(silylenemethylene)s were prepared by ring-opening polymerization of 1,3-disilacyclobutanes, e.g., 1,3-dimethyl-1,3-diphenyl-1,3-disilacyclobutane, followed by a protodesilylation reaction with triflic acid. Reactions of the triflate derivs. with organomagnesium compds., LiAlH₄, amines or alcs. gave functional substituted and branched poly(silylenemethylene)s, which may serve as suitable precursors for silicon carbide and Si/C/N-based materials.

ACCESSION NUMBER: 2000:349793 CAPLUS
DOCUMENT NUMBER: 133:267165
TITLE: Synthesis, functionalization and cross-linking reactions of poly(silylenemethylene)s
AUTHOR(S): Uhlig, Wolfram
CORPORATE SOURCE: Laboratorium fur Anorganische Chemie Eidgenossische Technische Hochschule Zurich ETH-Zentrum, Zurich, CH-8092, Switz.
SOURCE: Organosilicon Chemistry IV: From Molecules to Materials, [Lectures and Poster Contributions presented at the Muechner Silicontage], 4th, Muechen, Apr., 1998 (2000), Meeting Date 1998, 563-568.
Editor(s): Auner, Norbert; Weis, Johann. Wiley-VCH Verlag GmbH: Weinheim, Germany.
CODEN: 68ZMAL
DOCUMENT TYPE: Conference; General Review
LANGUAGE: English
OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

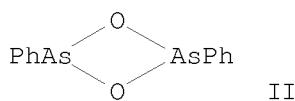
L16 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

AB Irradiation of 1,2-diphenylcyclobutene (DPCB) in methanol with light of longer wavelengths than 300 nm afforded the Me ethers, 1,2-diphenyl-1-methoxycyclobutane and 1-(α -methoxybenzyl)-1-phenylcyclopropane. In acetic acid and in a mixture of water and dioxane, the corresponding esters and alcs. were formed, resp. Irradiation of DPCB and diethylamine in hexane gave rise to N,N-diethyl-1,2-diphenylcyclobutylamine (EtNCB), 1,2-diphenylcyclobutane (DPCB), and 1,1',2,2'-tetraphenylbicyclobutyl (TPBCB). Upon similar irradiation, DPCB and morpholine afforded N-(1,2-diphenylcyclobutyl)morpholine, DPCB, and TPBCB. When diethylamine-N-d was used as an additive the deuterium was retained in the methine groups of compds. EtNCB, DPCB, and TPBCB. When pulsed laser excitation of DPCB at 308 nm in acetonitrile was carried out in the presence of tripropylamine, diethylamine, p-dicyanobenzene, and 2,2,2-trifluoroethanol, the transient absorption band was observed at 480-500 nm in each case; the absorption was ascribed to the olefin radical anion, radical cation, or cation on the basis of the decay behavior under deaerated and aerated conditions. These findings confirm the mechanisms involving the initial protonation and electron transfer in hydroxylic solvents and amines, resp., in the excited singlet state of the olefin.

ACCESSION NUMBER: 1995:9153 CAPLUS
DOCUMENT NUMBER: 122:42437
ORIGINAL REFERENCE NO.: 122:7999a,8002a
TITLE: Photochemical behavior of 1,2-diphenylcyclobutene in polar media
AUTHOR(S): Sakuragi, Masako
CORPORATE SOURCE: Natl. Inst. Mater. Chem. Res., Tsukuba, 305, Japan
SOURCE: Busshitsu Kogaku Kogyo Gijutsu Kenkyusho Hokoku (1993), 1(3), 135-45
CODEN: BKGHE2; ISSN: 0919-7087
DOCUMENT TYPE: Journal
LANGUAGE: English

L16 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

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AB p-RC₆H₄As:NC₆H₄R₁-p (I, R = H, Me, Br; R₁ = H, OMe, Br, O₂N) were prepared in 90-7% yields by treating p-RC₆H₄AsCl₂ with p-R₁C₆H₄NH₂ in the presence of Et₃N. Hydrolysis of I (R = R₁ = H) with H₂O gave 98% diarsadioxacyclobutane II.

ACCESSION NUMBER: 1987:459134 CAPLUS
DOCUMENT NUMBER: 107:59134
ORIGINAL REFERENCE NO.: 107:9825a,9828a
TITLE: Organoarsenic compounds with an arsenic-carbon double bond. II. Reaction of arylarsine dichlorides with primary aromatic amines
AUTHOR(S): Kokorev, G. I.; Yambushev, F. D.; Badruttinov, Sh. Kh.
CORPORATE SOURCE: Pedagog. Inst., Kazan, USSR
SOURCE: Zhurnal Obshchey Khimii (1986), 56(9), 2058-61
CODEN: ZOKHA4; ISSN: 0044-460X
DOCUMENT TYPE: Journal
LANGUAGE: Russian

OTHER SOURCE(S): CASREACT 107:59134
OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
(3 CITINGS)

L16 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

AB The main theoretical considerations for evaluation and calcn. of the preexponential coefficient of monomol. reactions were reviewed. The preexponential coeffs. of 28 such reactions (cis,trans isomerizations of α,β disubstituted ethylenes; racemization of a diphenyl derivative; and decompns. of amines, alcs., cyclobutane and its derivs., esters, ethers, and acetals) were calculated using the Eyring theory of absolute velocities; good agreement with experiment was observed. Activation energies and preexponential coeffs. for 450 monomol. reactions were presented.

ACCESSION NUMBER: 1966:420270 CAPLUS

DOCUMENT NUMBER: 65:20270

ORIGINAL REFERENCE NO.: 65:3720c-d

TITLE: Preexponential coefficient of monomolecular reactions
Simon, Z.

AUTHOR(S): Center Phys. Chem. Res., Bucharest, Rom.

CORPORATE SOURCE: Studii si Cercetari de Chimie (1966), 14(3), 173-234
SOURCE: CODEN: SCECA2; ISSN: 0039-3908

DOCUMENT TYPE: Journal

LANGUAGE: Romanian

L16 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

AB cf. C.A. 51, 17839d. In further attempts to demonstrate optical activity in the 1,2-bis(diphenylmethylene)cyclobutane system, the isomeric amines, cis- (I) and trans-1-(4-dimethylamino- α -phenylbenzylidene)-2-(diphenylmethylene) cyclobutane (II) were prepared. Heat, light, Al2O3, and acid facilitated their interconversion; acid surprisingly favored the I configuration. The UV spectra of these and related compds., particularly trans-trans-1-(p-dimethylaminophenyl)-4-phenyl-1,3-butadiene (III), were discussed. trans-trans-1,4-Diphenyl-1,3-butadiene (IV) was chromatographed and recrystd., m. 153-3.5° (hexane). Crude III was a viscous red oil which gave only a few crystals after 3 wk. Its solution in C6H6 was extracted twice with concentrated HCl. The combined exts. shaken with excess aqueous NaOH and C6H6, the evaporated, and the solid crystallized gave yellow

plates. These plates chromatographed on Al2O3 gave pure III, m. 183.5-4.0° (hexane). Solns. of III in CCl4 and hexane in the presence of air slowly decomposed. In UV light crystals of III fluoresced intensely pale yellow-green, solns. in hexane pale blue, and those in alc., Me2CO, or CHCl3 pale yellow-green. For spectrophotometry, solns. of III were prepared in the dark. III (17.5 mg.) in 75 mL hexane was illuminated 8 h., the solution evaporated, and the residual oil chromatographed in CCl4 on a column of Al2O3. Simultaneously pure III (17.5 mg.) in an equal amount of solvent was chromatographed on a 2nd column. Both columns were cut up and various fractions eluted with alc. These indicated that zone f of the first column contained cis-trans- and (or) trans-cis- amine, which yielded an oil which crystallized as the trans-trans- amine, λ 368 μ . p-Lithio-N,N-dimethylaniline in 70 mL Et2O prepared from 13.6 g. p-bromodimethylaniline and 0.95 g. Li, refluxed 0.5 h., 19.6 g. (\pm) -1-benzoyl-2-(diphenylmethylene)cyclobutane in 40 mL C6H6 added, the solution refluxed 0.5 h., and the product steam distilled gave the (\pm) -olefinic alc. (V), m. 158-8.5° (alc.).

Treatment of an Et2O solution of crude V with dry HCl or aqueous HCl gave a mixture

of the HCl salts of I and II. The whole amount of V in CHCl3 shaken with dilute HCl, then with excess dilute NaOH, finally with H2O, and the CHCl3 solution evaporated gave 15.7 g. mixed I and II, m. 141-50°. Stored in

the dark during 1 mo, the mother liquor deposited 3.5 g. almost pure II, yellow rods, m.p. depending upon the rate of heating; placed in a bath at 181° II m. 182-3° (cyclohexane). I and II (10.5 g.) and 5.7 g. anhydrous (+)-camphor-10-sulfonic acid in 10 mL C6H6, cooled, seeded, and left overnight gave 9.9 g. of the cis-(±)-camphor-10-sulfonate (VI), m. 187.5-90.0° (decomposition), $[\alpha]_{20D}$ 17.8° (c 2, C6H6). Using pure II also gave VI. VI shaken with excess aqueous NaON and Et2O, the Et2O layer separated, washed, and evaporated gave pure I; when placed in a bath at 190° it melted rapidly. VI showed no optical activity when 4% solns. were examined in 4 dm. tubes. I in refluxing MeI cooled and left overnight gave I.MeI, m. 194-4.5° (decomposition), pale green fluorescence in UV light. Similarly obtained was II.MeI, bluish rods, m. 205-6° (decomposition). Ag (+)-camphor-10-sulfonate (580 mg.) and 974 mg. I.MeI each in 20 mL MeOH gave 1.04 g. I-metho-(+)-camphor-10-sulfonate-3H2O (VII). VII evolved H2O at about 130° and m. 180°. Warmed with C6H6 it gave an opalescent solution which would not crystallize. The H2O of crystallization was removed to give

a product, m. 212-13°. All crops of VII had $[\alpha]_{21D}$ 14.8° (c 0.6, MeOH). When a solution of the first crop was passed through Dowex 1 X-2 the eluate was optically inactive. By the same method a 79% yield of the metho-(+)-camphor-10-sulfonate of II was obtained, m. 263-5° (decomposition), $[\alpha]_{22D}$ 13.8° (c 1.6, MeOH). Ion exchange carried out as above gave an optically inactive eluate.

ACCESSION NUMBER: 1960:16752 CAPLUS
DOCUMENT NUMBER: 54:16752
ORIGINAL REFERENCE NO.: 54:3310b-i
TITLE: Experiments in the cyclobutane series. V. cis- and trans-1-(4-Dimethylamino- α -phenylbenzylidene)-2-(diphenylmethylene)cyclobutane
AUTHOR(S): Kipping, F. B.; Wren, J. J.
SOURCE: Journal of the Chemical Society (1959) 2465-73
CODEN: JCSOA9; ISSN: 0368-1769
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
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FILE 'CAPLUS' ENTERED AT 13:56:48 ON 08 SEP 2009
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L3 0 SEA FILE=REGISTRY SSS SAM L2

L4 4 SEA FILE=REGISTRY SSS FUL L2

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L5 5 SEA FILE=CAPLUS SPE=ON PLU=ON L4
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L6 STRUCTURE uploaded
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L9 8 SEA FILE=REGISTRY SSS FUL L6

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L10 6 SEA FILE=CAPLUS SPE=ON PLU=ON L9

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FILE 'CAPLUS' ENTERED AT 14:05:57 ON 08 SEP 2009

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FILE 'CAPLUS' ENTERED AT 14:06:16 ON 08 SEP 2009

FILE 'REGISTRY' ENTERED AT 14:06:23 ON 08 SEP 2009

L11 8 SEA FILE=REGISTRY SSS FUL L6
D L11 1-

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L12 6 SEA FILE=CAPLUS SPE=ON PLU=ON L11

L13 0 SEA FILE=CAPLUS SPE=ON PLU=ON L12 NOT L10

L14 267 SEA FILE=CAPLUS SPE=ON PLU=ON ?CYCLOBUTANE (L) AMINE

L15 6 SEA FILE=CAPLUS SPE=ON PLU=ON L14 (L) DIPHENYL

L16 6 SEA FILE=CAPLUS SPE=ON PLU=ON L15 NOT L12
D L16 ABS IBIB HITSTR 1-

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